

## ABSTRACT

A method of detecting proliferative diseases causing sclerosis, comprising measuring the expression of at least one substance selected from the group consisting of STAT3, phosphorylated STAT3, Smad1, phosphorylated Smad1, activin receptor-like kinase 1, activin receptor-like kinase 3 and bone morphogenetic proteins in a biological sample. A kit therefor. A prophylactic and/or therapeutic agent for proliferative diseases causing sclerosis, comprising as an active ingredient a substance having an inhibitory effect on the expression of at least one substance selected from the group consisting of STAT3, phosphorylated STAT3, Smad1 and phosphorylated Smad1. A method of identifying substances effective in preventing and/or treating proliferative diseases causing sclerosis, comprising judging whether or not a test substance inhibits the expression of at least one substance selected from the group consisting of STAT3, phosphorylated STAT3, Smad1 and phosphorylated Smad1. A kit therefor.